

IN THE SPECIFICATION:

Please substitute the following paragraph for the paragraph starting at page 2, line 8 and ending at line 11.

Color ink-jet printing apparatuses generally print a color image by using three colors of ink, cyan, magenta, and yellow ~~color inks~~, or four inks including black ink in addition to these inks.

Please substitute the following paragraph for the paragraph starting at page 7, line 1 and ending at line 9.

In a printing apparatus using a conventional printhead, an air flow occurs depending on the ink discharge state and printing conditions of the printhead, degrading the quality of an image formed on a printing medium. To solve this problem, complicated printing ~~condition~~ conditions must be performed, or control disadvantageous to printing operation must be performed by excessively decreasing the moving speed of the printhead.

Please substitute the following paragraph for the paragraph starting at page 20, line 9 and ending at line 21.

A region above the printing ratio control line 401, i.e., region where the sum of the printing ratios of printing nozzle array 1 and printing nozzle array 2 is large is set as an NG region where the influence of an air flow is strong and the quality of an image formed on a printing medium is low. A region below the printing ratio control line 401, i.e., the region where the sum of the printing ratios of printing nozzle array 1 and printing nozzle array 2 is small, is set as an OK region where the influence of an air flow is weak and the quality of an image formed

on a printing medium is high. In printing control, printing is set to be executed using the OK region.

Please substitute the following paragraph for the paragraph starting at page 21, line 6 and ending at line 18.

Also in this case, a region above the printing ratio control line 402, i.e., the region where the sum of the printing ratios of printing nozzle array 1 and printing nozzle array 2 is large, is set as an NG region where the influence of an air flow is strong and the quality of an image formed on a printing medium is low. A region below the printing ratio control line 402, i.e., the region where the sum of the printing ratios of printing nozzle array 1 and printing nozzle array 2 is small, is set as an OK region where the influence of an air flow is weak and the quality of an image formed on a printing medium is high. In printing control, printing is set to be executed using the OK region.

Please substitute the following paragraph for the paragraph starting at page 42, line 26 and ending at page 43, line 9.

As described above, according to the second embodiment, in ink-jet printing that discharges a plurality of types of inks onto a printing medium from the nozzles of a printhead having a plurality of printing nozzle arrays, the influence of an air flow by ink discharge can be suppressed by controlling for each pixel the numbers of dots to be discharged from a plurality of neighboring printing nozzle arrays. Control optimum Optimum control for printing using a plurality of printing nozzle arrays can be achieved to realize high-image-quality printing.

Please substitute the following paragraph for the paragraph starting at page 45, line 17 and ending at page 46, line 2.

As described above, according to the third embodiment, in ink-jet printing that discharges ink onto a printing medium from the nozzles of a printhead having a plurality of printing nozzle arrays, the influence of an air flow by ink discharge can be suppressed by controlling for each pixel the numbers of dots to be discharged from a plurality of neighboring printing nozzle arrays by using a plurality of printing nozzle arrays in which printing nozzles for discharging a plurality of ink amounts are arrayed. Accordingly, optimum control optimum for printing using a plurality of nozzles with a plurality of ink discharge amounts can be achieved to realize high-image-quality printing.